

Remarks

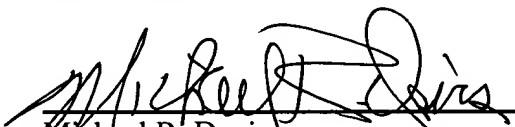
Referring to the paper entitled INTENT TO ADD NEW CLAIMS filed January 3, 2006, new claim 14 as set forth above has now been added to the application. This claim is supported by the application as filed in general, and more specifically, by Examples 1-13, which are summarized in the attached Table. Requirements (A)-(C) in the Table correspond to paragraphs (A)-(C) in new claim 14.

It is desirable to highly adjust the condition of a colloidal solution (a slurry) in the present invention. For instance, it becomes easy to orient the powders such as alumina in a magnetic field by adjusting the solid content of a colloidal solution (a slurry) in proportion to the average particle size of the powders, as indicated in new claim 14. In this regard, please see the attached sheet with the graphs thereon.

Respectfully submitted,

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Table

Example	Particle	Diameter (μm)	Solid Content (vol%)	Requirement
1	Al_2O_3	0.1	40	(B)
2	Al_2O_3	0.1		
3	Al_2O_3	0.4		
4	Al_2O_3	0.1		
5	Al_2O_3	0.1		
6	TiO_2	0.03 (30nm)	20	(A)
7	ZnO	0.04 (40nm)		
8	AlN	0.69	50	(C)
9	ZrO_2	0.094 (94nm)	30	(B)
10	Al_2O_3	0.1		
	ZrO_2	0.06		
11	Al_2O_3 SiC whisker	0.1 0.5	20	(A)
12	SnO_2 MgO	0.03 (30nm) 0.03 (30nm)		
13	Hydroxyapatite	0.1 (100nm)	30	(B)



Attached sheet 01-F-011US

The disclosure of Wei et al is the usual colloid process of alumina, and the solid phase density is 45%. Even if the colloid solution of 45vol% is only applied to the magnetic field process disclosed by Topchiashvili, the alumina particles can be not oriented. In this case, even if the magnetic field of 10 T is applied, degree of orientation ($I_{006}/(I_{110}+I_{006})$) is about 0.05. Because alumina etc. has a very small magnetic susceptibility and it's particle is not rotated easily under a strong magnetic field, it is important to adjust the solid phase density of the solution in order that the particles can easily rotate. When the solid phase density is adjusted along with the new claim, for example 30 vol% the alumina particle is effectively oriented.

